



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Agin Day	
PO040082	ACI001-VC	1	1	Net 30	M1018R4.250	1018-1025 Round Bar MATERIAL: AISI 1018-1025 ROUND BAR SPECIFICATION: MIL-S-7097 OR ASTM A108				4	6/8/2018	4		S079411	Stock	6/8/2018	\$ 142.50 / ft		
		2			M1018B0.750X0.750 ASTM D	1010-1025 Steel Bar .750 X .750 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft				12		12		S079412	Stock	6/8/2018	\$ 2.96 / ft		
		3			M1018B0.500X0.500 ASTM D	1010-1025 Steel Bar .500 X .500 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft						12		S079413	Stock	6/8/2018	\$ 1.32 / ft		
		4			MT-Q1-B 0.250X3.000 ASTM	Tool Steel Bar 0.250" X 3.000" MATERIAL: AISI 01 TOOL STEEL BAR DIN 1.2510 or B.S. B0 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681				3		12		S079414	Stock	6/8/2018	\$ 116.00 / ft		
Total:										31		40							

Plex 6/8/2018 1:52 PM Dart.Dubois.Pascal



DELIVERY - CLIENT

CO00092875

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

1

Customer N°

CL10001056

Date

2018/06/01

Delivery date

2018/06/07

Your order N°

40082

Processed by

Eric Kaehlert

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND CR 4 1/4 1018 NS RCR-414 10976 1 X 4' LINE#1 ACI6951-GR-2018-06-06 Heat: 8171649	192.92	4.00	PI		14 4'		4'				JUN 08 2018 DAS 11 9-89
2 SQUARE CR 3/4 1018 (R) CCR-34 1826 1 X 12' RL LINE#2 Heat: 400805	22.92	12.00	PL \$CLB		1x 12' B.I."		12'				JUN 08 2018 DAS 11 9-89

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00092875

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Int: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Int: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date

2018/06/01

Delivery date

2018/06/07

Your order N°

40082

Processed by

Eric Kaehlert

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
3 SQUARE CR 1/2 1018 (R) CCR-12 1 X 12' RL LINE# 3 Heat: 42008	10.20	12.00	PL \$CLB		1x 12' 11"		12'				DAS 11 9-89
4 FLAT GRD STOCK 01 1/4 X 3 NS F01-143 4 X 3' LINE#4 AC16948-VA-2018-04-06 Heat: Typique	30.60	12.00	PL		4x 3'		12'				DAS 11 9-89

NIR : R-109516-6

Next Page...

ACIER OUELLETTE INC.

DELIVERY - CLIENT

0000092875

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer No. _____

CI10001056

Date _____

2018/06/01

Delivery date

2018/06/07 00:00

Your order N°

40082

Processed by

Eric Kaehlert

Salesman

QUELLETTE VALLEYFIELD

**1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Credit Terme

Net 30 Days

Instruction F-M

Delivery Route 5

Page

ω

[illegible]

Total Weight (Lbs) : 256.64

NIR : R-109516-6

Conditions :
All sold and delivered materials remain the property of "Acier Quellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Quellette Inc." is the same as offered and honored by the manufacturer and its warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be submitted within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to 25% restocking charge.

Total Weight (lbs) : 256.64 **NIR :** R-109516-6

Total (\$CAD)

Prepared By :

Verified By :

Delivered BY:

Time

Customer's Signature _____

Date _____



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040082**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO040082
PO Date: 6/1/18
Due Date: 6/8/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Phone:

E-MAILED
JUN 01 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments: quote no. sou0110129

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M1018R4.250		1018-1025 Round Bar MATERIAL: AISI 1018- 1025 ROUND BAR SPECIFICATION: MIL-S- 7097 OR ASTM A108	Firmed	6/8/18	4 ft	0 ft	4 ft	\$142.50/ft	\$570.00
2	M1018B0.750X0.750		1010-1025 Steel Bar .750 X .750 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	6/8/18	12 ft	0 ft	12 ft	\$2.9608333/ft	\$35.53
3	M1018B0.500X0.500		1010-1025 Steel Bar .500 X .500 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	6/8/18	12 ft	0 ft	12 ft	\$1.3175/ft	\$15.81
4	MT-O1-B- 0.250X3.000		Tool Steel Bar 0.250" X 3.000" MATERIAL: AISI 01 TOOL STEEL BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681	Firmed	6/8/18	3 ft	0 ft	3 ft	\$116.00/ft	\$348.00

Grand Total: \$969.34

Order Notes

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/1/18 12:38 PM dart.lavoie.chantal

Date : _____ Total (\$CAD) 1 099.82

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018 Bd. 500x0.500
 DATE: JUN 08 2018

PO / BATCH NO.: 040082/579413

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>N</u>	
CORRECT FINISH	<u>Y</u>	N	
CORROSION	<u>Y</u>	<u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u>	N	<u>use for dent testing only</u>
CORRECT THICKNESS	<u>Y</u>	N	
PHOTO REQUIRED	<u>Y</u>	<u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u>	N	<u>Heat # 42008</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u>	N	
CORRECT M# ON THE MATERIAL	<u>Y</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u>	<u>PD 18-06-14</u>	SIGNED OFF BY: _____	
DATE: <u>8-89 JUN 08 2018</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. M1010-B	REV. A SHEET 1 OF 1
DATE 01.12.06		TITLE AISI 1010-1025 BAR	
A	01.12.06	NEW ISSUE	

PURCHASE MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570
OR CSA G40-21, 38W/44W/50W/60W/70W

PART NUMBER: M1010-B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
| THICK | | WIDTH | WW.WWW = WIDTH (IN INCHES)
EG. 0.75" x 250" BAR = M1010-B0.750 x 02.500

RELEASED
01.12.07

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018 B 0.750 X 0.750

PO / BATCH NO.: 040082/5079412

DATE: JUN 08 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	use for dent tooling only PD.
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Heat # 40080
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> <u>PD 18.06.14</u> DATE: <u>9-89 JUN 08 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. M1010-B	RLV A SHEET 1 OF 1
DATE 01.12.06		TITLE AISI 1010-1025 BAR	SCALE NTS
A	01.12.06	NEW ISSUE	

PURCHASE MATERIAL: AISI 1010-1025 OR ASTM A36 / A366 / A569 / A570
OR CSA G40-21, 38W / 44W / 50W / 60W / 70W

PART NUMBER: M1010-B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK WIDTH WW.WWW = WIDTH (IN INCHES)
EG. 0.75" x 2.50" BAR = M1010-B0.750 x 02.500

RELEASED
01.12.07

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018R4.250
 DATE: JUN 08 2018

PO / BATCH NO.: 040082/5079411

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.250
 THICKNESS RECEIVED: 4.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	<u>Astm A108</u>
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	<u>Heat # 8171649</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>11 JUN 08 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

SPECIFICATION: MIL-S-7097 OR ASTM A108

PART NUMBER: M1018-R/D DDD WHERE D, DDD = DIAMETER IN INCHES
DIA.

EG. 7/8" ROUND BAR = M1018-R0 875

TOLERANCES: PER ASTM A108 AS FOLLOWS:

SIZE	TOLERANCE
UP TO 1.5" INCL.	+0.000/-0.002
OVER 1.5" TO 2.5" INCL.	+0.000/-0.003
OVER 2.5" TO 4.0" INCL.	+0.000/-0.004
OVER 4.0" TO 6.0" INCL.	+0.000/-0.005
OVER 6.0" TO 8.0" INCL.	+0.000/-0.006

RELEASED
2012-09-24

B	REFORMAT, ADD ASTM A108, ADD TOLERANCES	CP	12.09.05
A	NEW ISSUE	DS	01.06.12
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	CP		
CHECKED	CP		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.09.05		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M1018-R

TITLE 1018-1025 ROUND BAR

REV. B

SHEET 1 OF 1

SCALE NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 44-01-B-0.250x3.000

PO / BATCH NO: 040083/5079414

DATE: JUN 08 2018

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250
 THICKNESS RECEIVED: 0.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	<u>0-1</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	<u>Heat # typique</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 JUN 08 2018</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI O1 TOOL STEEL BAR
SPECIFICATION: DIN 1.2510 or B.S. BQ 101
SAE J437 or SAE J438
or UNS T31501 or ASTM A681
PART NUMBER: MT-O1-B-[H.HHH]x[W.WWWW]
WHERE "H.HHH" = HEIGHT IN INCHES
WHERE "W.WWWW" = WIDTH IN INCHES
EG. 4"x6" BAR = MT-O1-B-4.000x6.000
TOLERANCES PER MANUFACTURER SPECIFICATIONS

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	WM

DART AEROSPACE		Hemelock, Ontario, Canada	
TITLE AISI O1 TOOL STEEL BAR			
DWG NO.		REV	
MT-O1-B		A	
DESIGN BY:	VAL 8/9/2017	XXX 2.255	FRACTIONS & 1/8
DRAWN BY:	SAC 09/07/2017	XX 2.91	INCHES & 1/16
CHECKED:	VAL 09/07/2017	1. DIMENSIONS ARE IN INCHES	
MFG APPR:	PD 09/09/2017	2. INTERPRETATION AND TOL	
QA APPR:	WM 09/12/2017	3. DIMENSIONS & LIMITS APPLY	
DATE:	9/7/2017	SCALE:	NTS (WEIGHT N/A LBS)
SHEET 1 OF 1			
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ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN.10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47192

ALBARAN 47192
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

				% C	% Cr	% Cu	% Mn	% Mo	% Ni	% P	% Pb	% S	% Si
31,75	0,00	138964	41378 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,165
31,75	0,00	139049	41378 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,165
9,53	0,00	202340	41113 AA*	0,079	0,027	0,016	1,097	0,004	0,019	0,056	0,276	0,279	0,022
25,40	0,00	202179	40463 S	0,073	0,058	0,012	1,090	0,005	0,020	0,068	0,252	0,302	0,005
15,88	0,00	916391	40619 AA	0,150	0,000	0,000	0,775	0,000	0,000	0,013	0,000	0,027	0,157
19,05	0,00	915992	40080 S	0,165	0,000	0,000	0,780	0,000	0,000	0,009	0,000	0,024	0,274
25,40	0,00	916469	41198 G	0,160	0,000	0,000	0,630	0,000	0,000	0,007	0,000	0,010	0,136
31,75	0,00	139168	41378 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,165

Características mecánicas / Mechanical properties

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strength N/mm ²	Lím.elástico Yield point 0,2% N/mm ²	Alargamiento Elongation Lo=50 mm.	Dureza HB Hardness HB	Estricción %
11,11		908989	29708 G	628,75	591,11	16,94	190,00
25,40		916007	40655 G	586,71	565,37	21,86	176,00
		916018	40545 G	586,33	574,71	19,72	176,00
		916469	41198 G	614,68	599,18	22,76	180,00
25,40		202179	40463 S	521,37	485,79	25,34	153,00
22,23		915964	40717 G	625,03	599,51	24,20	185,00
31,75		138699	41378 G	586,30	560,30	24,30	176,00
23,81		915312	37291 A	619,20	609,49	22,34	185,00
15,88		915991	40639 S	585,04	539,10	15,16	180,00
31,75		138956	41378 G	586,30	560,30	24,30	176,00
19,05		915992	40080 S	530,32	510,28	34,50	162,00
15,88		916391	40619 AA	579,16	547,66	19,70	169,00
28,58		916104	40910 G	568,80	546,30	32,76	169,00
31,75		138948	41378 G	586,30	560,30	24,30	176,00
9,53		915990	40828 G	783,23	761,48	10,92	247,00
31,75		138964	41378 G	586,30	560,30	24,30	176,00
31,75		139049	41378 G	586,30	560,30	24,30	176,00
9,53		202340	41113 AA*	602,60	585,60	14,04	180,00
25,40		202179	40463 S	521,37	485,79	25,34	153,00
15,88		916391	40619 AA	579,16	547,66	19,70	169,00
19,05		915992	40080 S	530,32	510,28	34,50	162,00
25,40		916469	41198 G	614,68	599,18	22,76	180,00
31,75		139168	41378 G	586,30	560,30	24,30	176,00

Calidad Superficial



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47192

ALBARAN 47192
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

DESCRIPCIÓN Description	OF	Clase EN 10277-1
1018 RED. ESTIRADO 11,11 (7/16")	908989	2
1018 RED. ESTIRADO 25,40 (1")	916007	2
1018 RED. ESTIRADO 25,40 (1")	916018	2
1018 RED. ESTIRADO 25,40 (1")	916469	2
12L14 HEX. ESTIRADO 25,40 (1")	202179	1
1018 RED. ESTIRADO 22,23 (7/8")	915964	2
1018 RED. ESTIRADO 31,75 (1 1/4")	138699	3
1018 RED. ESTIRADO 23,81 (15/16")	915312	2
1018 RED. ESTIRADO 31,75 (1 1/4")	138956	3
1018 RED. ESTIRADO 15,88 (5/8")	916391	2
1018 RED. ESTIRADO 28,58 (1 1/8")	916104	2
1018 RED. ESTIRADO 31,75 (1 1/4")	138948	3
1018 RED. ESTIRADO 31,75 (1 1/4")	138964	3
1018 RED. ESTIRADO 31,75 (1 1/4")	139049	3
12L14 RED. ESTIRADO 9,53 (3/8")	202340	3
12L14 HEX. ESTIRADO 25,40 (1")	202179	1
1018 RED. ESTIRADO 15,88 (5/8")	916391	2
1018 RED. ESTIRADO 25,40 (1")	916469	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139168	3

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 08/05/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
ISO 9001:2008

92875

Dent.

16951N

CERTIFICATE OF COMPLIANCE / CERTIFICAT DE CONFORMITÉ				
No. de commande / order #	CLIENT / CUSTOMER		No. d'expédition/packing slip #	DATE
No. de commande / order #	CLIENT / CUSTOMER		No. d'expédition/packing slip #	DATE
			D32230	JAN-30-14
NO. DU MATÉRIEL / LD. #	NUANCE / GRADE	TRAITEMENT THERMIQUE / HEAT TREATMENT		COULÉE / HEAT #
2013-1550	C1018	COLD FINISHED / FINI À FROID		8171649
FORME / SHAPE	DIMENSION / SIZE	SPÉCIFICATIONS		
Round / Rond	4.250" in.	ASTM A108-07		
PAYS D'ORIGINE:	USA			
ANALYSE CHIMIQUE / CHEMICAL COMPOSITION				
	Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)
min/max	0.150 0.200	0.100 0.200	0.500 0.900	0.040
actuel (%)	0.170	0.200	0.690	0.007
	Sulfur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
min/max	0.050	0.000 0.200	0.000 0.250	0.000 0.060
actuel (%)	0.028	0.070	0.060	0.020
	Copper (Cu)	Vanadium (V)	Aluminium (Al)	Tungsten (W)
min/max	0.000 0.950	— —	— —	— —
actuel (%)	0.080	0.001	0.022	0.000

PROPRIÉTÉS MÉCANIQUES / MECHANICAL PROPERTIES				
Tolérance diamètre / diameter	Résistance à la traction / Tensile	Alongement / Elongation (%)	Réduction surface / ratio	Surface HD/dureté
0	PSI	.	0.0	.

Aucune réparation exécutée par soudure durant la fabrication de ce produit. Par la présente nous attestons que les résultats ci-haut mentionnés ont été vérifiés et sont conformes aux spécifications.

No weld repairs performed during the manufacturing of this product. We hereby certify that the above results have been verified and conform to the above mentioned specifications.

Keith BALL

Vanguard



4 1/4"

CR1018

4 1/4"

1826

CCR-34-V

TNA-1595

15/8/17

49679



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47192

ALBARAN 47192
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

Identificación Identification	Material	ESPE- THICKNESS	REPR- REPRODUCTION		
PAJ-47267	1018 RED. ESTIRADO 11,11 (7/16")	832	- 0,051	908989	11,11
CA-46387	1018 RED. ESTIRADO 25,40 (1")	732	- 0,051	916007	25,40
CA-46387	1018 RED. ESTIRADO 25,40 (1")	548	- 0,051	916018	25,40
CA-46387	1018 RED. ESTIRADO 25,40 (1")	998	- 0,051	916469	25,40
MUP-47245	12L14 HEX. ESTIRADO 25,40 (1")	976	- 0,076	202179	25,40
OU-47424	1018 RED. ESTIRADO 22,23 (7/8")	960	- 0,051	915964	22,23
AQM-46896	1018 RED. ESTIRADO 31,75 (1 1/4")	990	- 0,051	138699	31,75
OU-47436	1018 RED. ESTIRADO 23,81 (15/16")	820	- 0,051	915312	23,81
VI-47383	1018 CUA. ESTIRADO 15,88 (5/8")	996	- 0,110	915991	15,88
PAJ-47709	1018 RED. ESTIRADO 31,75 (1 1/4")	958	- 0,051	138956	31,75
PAR-47756	1018 CUA. ESTIRADO 19,05 (3/4")	1.000	- 0,130	915992	19,05
PAR-47756	1018 RED. ESTIRADO 15,88 (5/8")	1.014	- 0,051	916391	15,88
PAR-47756	1018 RED. ESTIRADO 28,58 (1 1/8")	1.006	- 0,051	916104	28,58
MUP-47531	1018 RED. ESTIRADO 31,75 (1 1/4")	1.922	- 0,051	138948	31,75
PAJ-47709	1018 CUA. ESTIRADO 9,53 (3/8")	982	- 0,090	915990	9,53
PAR-47756	1018 RED. ESTIRADO 31,75 (1 1/4")	924	- 0,051	138964	31,75
CA-46398	1018 RED. ESTIRADO 31,75 (1 1/4")	960	- 0,051	139049	31,75
PAR-47851	12L14 RED. ESTIRADO 9,53 (3/8")	992	- 0,051	202340	9,53
PAJ-47738	12L14 HEX. ESTIRADO 25,40 (1")	990	- 0,076	202179	25,40
MUP-47861	1018 RED. ESTIRADO 15,88 (5/8")	2.020	- 0,051	916391	15,88
OU-47812	1018 CUA. ESTIRADO 19,05 (3/4")	1.002	- 0,130	915992	19,05
OU-47812	1018 RED. ESTIRADO 25,40 (1")	1.202	- 0,051	916469	25,40
VI-46700	1018 RED. ESTIRADO 31,75 (1 1/4")	1.854	- 0,051	139168	31,75

Composición química de la colada / Chemical Analysis of Heat

MEDIDA Measurement	OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mn	% Mo	% Ni	% P	% Pb	% S	% Si
11,11 0,00	908989	29708 G	0,150	0,000	0,000	0,600	0,000	0,000	0,014	0,000	0,025	0,225
25,40 0,00	916007	40655 G	0,170	0,106	0,231	0,610	0,024	0,111	0,011	0,000	0,016	0,143
	916018	40545 G	0,170	0,106	0,231	0,610	0,024	0,111	0,011	0,000	0,016	0,143
	916469	41198 G	0,160	0,000	0,000	0,630	0,000	0,000	0,007	0,000	0,010	0,136
25,40 0,00	202179	40463 S	0,073	0,058	0,012	1,090	0,005	0,020	0,068	0,252	0,302	0,005
22,23 0,00	915964	40717 G	0,160	0,000	0,000	0,640	0,000	0,000	0,014	0,000	0,008	0,130
31,75 0,00	138699	41378 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,165
23,81 0,00	915312	37291 A	0,162	0,000	0,000	0,705	0,000	0,000	0,013	0,000	0,025	0,180
15,88 0,00	915991	40639 S	0,165	0,000	0,000	0,763	0,000	0,000	0,015	0,000	0,021	0,285
31,75 0,00	138956	41378 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,165
19,05 0,00	915992	40080 S	0,165	0,000	0,000	0,780	0,000	0,000	0,009	0,000	0,024	0,274
15,88 0,00	916391	40619 A.A	0,150	0,000	0,000	0,775	0,000	0,000	0,013	0,000	0,027	0,157
28,58 0,00	916104	40910 G	0,155	0,000	0,000	0,635	0,000	0,000	0,013	0,000	0,016	0,137
31,75 0,00	138948	41378 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,165
9,53 0,00	915990	40828 G	0,140	0,000	0,198	0,760	0,000	0,000	0,016	0,000	0,033	0,242

1806.

CCR-12 50659

TRA-2537


**CALIBRADOS
PRADERA, S.A.**

ARANA Y LUPARDO, 2
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2P

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

N° CERTIFICADO / CERTIFICATE NR.: 49249

ALBARAN 49249
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

N° PRODUCTO Purchasing Order	DESCRIPCIÓN	TOL.	TOL.	TOL.	TOL.
PAJ-48097	1018 CUA. ESTIRADO 12,70 (1/2")	994	- 0,110	916898	12,70
OU-48310	1018 CUA. ESTIRADO 12,70 (1/2")	988	- 0,110	916898	12,70
OU-48310	1018 RED. ESTIRADO 7,94 (5/16")	1.002	- 0,051	140429	7,94
PAR-48569	12L14 RED. ESTIRADO 15,88 (5/8")	994	- 0,051	140560	15,88
PAJ-48393	1018 CUA. ESTIRADO 12,70 (1/2")	1.972	- 0,110	916898	12,70
PAR-48569	1018 CUA. ESTIRADO 12,70 (1/2")	990	- 0,110	916898	12,70
SM-48509	1018 CUA. ESTIRADO 12,70 (1/2")	986	- 0,110	916898	12,70
PAR-48735	1018 CUA. ESTIRADO 12,70 (1/2")	1.300	- 0,110	916898	12,70
PAR-48735	12L14 RED. ESTIRADO 14,29 (9/16")	988	- 0,051	202401	14,29
PAR-48735	12L14 RED. ESTIRADO 31,75 (1 1/4")	842	- 0,051	202514	31,75
PAR-48735	12L14 RED. ESTIRADO 31,75 (1 1/4")	1.000	- 0,051	202539	31,75
MJP-48737	12L14 HEX. ESTIRADO 25,40 (1")	990	- 0,076	916873	25,40

Composición química de la colada / Chemical Analysis of Heat

MEDIDA Measurement	OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mn	% Mo	% N	% Ni	% P	% Pb	% S	% Si
12,70	0,00	916898	42008	0,160	0,000	0,276	0,782	0,000	0,000	0,009	0,000	0,008	0,208
12,70	0,00	916898	42008	0,160	0,000	0,276	0,782	0,000	0,000	0,009	0,000	0,008	0,208
7,94	0,00	140429	42010 GM	0,160	0,000	0,290	0,710	0,000	0,008	0,000	0,020	0,000	0,180
15,88	0,00	140560	41826 G	0,066	0,028	0,085	1,125	0,010	0,000	0,033	0,044	0,260	0,304
12,70	0,00	916898	42008	0,160	0,000	0,276	0,782	0,000	0,000	0,009	0,000	0,008	0,208
12,70	0,00	916898	42008	0,160	0,000	0,276	0,782	0,000	0,000	0,009	0,000	0,008	0,208
12,70	0,00	916898	42008	0,160	0,000	0,276	0,782	0,000	0,000	0,009	0,000	0,008	0,208
12,70	0,00	916898	42008	0,160	0,000	0,276	0,782	0,000	0,000	0,009	0,000	0,008	0,208
14,29	0,00	202401	41319 OC	0,080	0,016	0,010	1,020	0,002	0,000	0,014	0,058	0,280	0,002
31,75	0,00	202514	40991 W	0,070	0,140	0,270	1,110	0,030	0,000	0,120	0,052	0,210	0,313
25,40	0,00	202539	41904 AG	0,080	0,094	0,016	1,100	0,012	0,000	0,026	0,068	0,320	0,300
		916873	40463 S	0,073	0,058	0,012	1,090	0,005	0,000	0,020	0,068	0,252	0,302

Características mecánicas / Mechanical properties



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www.calibradospradera.es

TRA 2537

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49249

ALBARAN 49249
Delivery Note Nr.

CLIENTE LES ACTIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strength N/mm2	Lím.elástico Yield point 0,2% N/mm2	Alargamiento Elongation Lo=50 mm.	Dureza HB Hardness HB	Estricción %
12,70	916898	42008	628,74	580,60	14,70	190,00	58,11
12,70	916898	42008	628,74	580,60	14,70	190,00	58,11
7,94	140429	42010.GM	688,00	633,40	10,22	200,00	61,60
15,88	140560	41826 G	588,93	579,26	11,28	175,00	41,65
12,70	916898	42008	628,74	580,60	14,70	190,00	58,11
12,70	916898	42008	628,74	580,60	14,70	190,00	58,11
12,70	916898	42008	628,74	580,60	14,70	190,00	58,11
12,70	916898	42008	628,74	580,60	14,70	190,00	58,11
14,29	202401	41319 OC	576,87	562,77	13,24	165,00	55,62
31,75	202514	40991 W	545,20	529,60	24,08	200,00	40,07
	202539	41904 AG	561,90	548,20	28,26	180,00	47,30
25,40	916873	40463 S	521,37	485,79	25,34	153,00	49,11

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
1018 RED. ESTIRADO 7,94 (5/16")	140429	2
12L14 RED. ESTIRADO 15,88 (5/8")	140560	3
12L14 RED. ESTIRADO 14,29 (9/16")	202401	3
12L14 RED. ESTIRADO 31,75 (1 1/4")	202514	3
12L14 RED. ESTIRADO 31,75 (1 1/4")	202539	3
12L14 HEX. ESTIRADO 25,40 (1")	916873	1

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO, SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 19/10/2017

Firmado: Susana Fernández
Directora de Calidad

CALIBRADOS
PRADERA, S.A.



Sistema de
Gestión
ISO 9001:2008

www.tuv.com
ID 1105000028

92875

16948N

LETTRÉ DE CONFORMITÉ
CERTIFICATE OF COMPLIANCE

(Material Verification)

Dart

CUSTOMER / CLIENT: **ACIER OUELLETTE INC**

Customer PO# /

Shipping / Date / d'envoi: **31/05/2018**

Commande Client :

AC00016948Order # / Commande # : **L43852-01****COUNTRY OF ORIGIN: U.S.A.**

MATERIAL / MATÉRIEL :

O-1

Dimension :

TOUS LES GRANDEURS

Heat # / No Fabrication :

TYPIQUE

Lot # / No de lot :

Specifications Spécifications :

**FGS (FLAT GROUND STOCK) / PLATS
RECTIFIES DE PRECISION****Chemical / Analyse / Chimique :**

C	0.900	Cu	
Mn	1.200	Cb	
Ph		Ta	
Su		V	0.200
Si	0.300	Co	
Cr	0.500	W	0.500
Mo		Autre:	
Ni			


Mechanical / Propriétés / Mécaniques :Yield Strength
Elasticité :

Elongation :

Tensile Strength
Résistance traction :Reduction ratio
Corroyage :

Nous certifions que les résultats mentionnés ci-hauts ont été vérifiés et rencontrent les critères voulus.
We hereby certify that the above results have been verified and conform to the above mentioned specifications.

Date:

28/06/2017
Keith BALL (Branch Manager)**MONTREAL - TORONTO - WINNIPEG - EDMONTON - VANCOUVER**